

CLAIMS

1. A cleaning apparatus for cleaning a peripheral part of a substrate, comprising:

an upper cleaning roller supported for rotation on a base, and including a core member and an elastic porous member covering a circumference of the core member;

a lower cleaning roller supported for rotation on the base, including a core member and an elastic porous member covering a circumference of the core member and capable of holding a peripheral part of the substrate together with the elastic porous member of the upper cleaning roller;

a drive mechanism for driving the upper cleaning roller and the lower cleaning roller for rotation;

a moving mechanism for moving the upper cleaning roller and the lower cleaning roller relative to the substrate; and

a cleaning liquid supply system for supplying a cleaning liquid to at least either the elastic porous member of the upper cleaning roller or that of the lower cleaning roller.

2. The cleaning apparatus according to claim 1, wherein the cleaning liquid supply system has a cleaning liquid supply pipe to supply the cleaning liquid to the elastic porous member.

3. The cleaning apparatus according to claim 2, wherein the core member is a hollow member having a circumferential wall provided with a hole, and the cleaning liquid carried by the cleaning liquid supply pipe is supplied through an interior and the hole of the core member to the elastic porous member.

4. The cleaning apparatus according to claim 1, wherein at least either the upper cleaning roller or the lower cleaning roller is supported for rotation on the base by a rotating shaft, and the cleaning liquid supply system has a cleaning liquid passage formed in the rotating shaft supporting the upper cleaning roller or the lower cleaning roller to supply the cleaning liquid to the elastic porous member.

5. The cleaning apparatus according to claim 4, wherein the core member is provided with a connecting passage connected to the cleaning liquid passage of the rotating shaft and opening

into the elastic porous member to supply the cleaning liquid carried by the cleaning liquid passage of the rotating shaft to the elastic porous member.

6. The cleaning apparatus according to claim 4, wherein the core member is a hollow member having a circumferential wall provided with a hole, and the cleaning liquid supplied through the cleaning liquid passage of the rotating shaft is supplied through an interior and the hole of the core member to the elastic porous member.

7. The cleaning apparatus according to claim 1, wherein the upper cleaning roller and the lower cleaning roller are interlocked and the drive mechanism is provided with a single drive motor for driving the upper cleaning roller and the lower cleaning roller.

8. A cleaning method of cleaning a peripheral part of a substrate, comprising the steps of:

holding a peripheral part of a substrate between respective elastic porous members of upper and lower cleaning rollers;

supplying a cleaning liquid to at least either the elastic porous member of the upper cleaning roller or that of the lower cleaning roller; and

rotating the upper cleaning roller and the lower cleaning roller, moving the upper cleaning roller and the lower cleaning roller relative to the substrate held between the elastic porous members of the upper cleaning roller and the lower cleaning roller.